

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Complete if Known

Application Number	10/549,660
Filing Date	May 2, 2006
First Named Inventor	Terje Eidesmo et al.
Art Unit	2862
Examiner Name	Bot L. Ledyh
Attorney Docket Number	1101.151US01

Sheet 1 of 14

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code ² (if known)		
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/Bot Ledyh/

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Examiner Name				Bot L. Ledyh	
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)			
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EXAMINER INITIAL ¹	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T ⁶
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		WO 92/13172	06/08/1992		
		WO 92/15771	09/17/1992		
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Application Number	10/549,660
Filing Date	May 2, 2006
First Named Inventor	Terje Eidesmo et al.
Art Unit	2862
Examiner Name	Bot L. Ledyh
Attorney Docket Number	1101.151US01

Sheet 8 of 14

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		Cheesman et al., "On The Theory Of Sea-Floor Conductivity Mapping using Transient Electromagnetic Systems": Vol. 52, No. 2; February 1987; pages 204-217;	
		Ellingerud et al., "How Electromagnetic Sounding Technique Could be Coming to Hydrocarbon E & P", 20 First Break (March 2002).	*
		Eidesmo et al., "Sea Bed Logging (SBL), a new method for remote and direct identification of hydrocarbon filled layers in deepwater areas", 20 First Break (March 2002).	
		Kaufman et al., "EM Field of an Electric Dipole on the Surface of a Medium Containing a Thin Resistant Layer", Frequency and Transient Soundings, publ. Elsevier, (1983).	
		Kaufman et al., 1981 Annual Meeting Abstracts: Marine EM Prospecting System, 47 Geophysics 431 (1982).	
		Garg et al., "Synthetic Electric Sounding Surveys Over Known Oil Fields", 49 Geophysics 1959-67 (November 1984).	*
		Yuan et al., "The Assessment of Marine Gas Hydrates Through Electrical Remote Sounding: Hydrate Without a BSR?", 27 Geophys. Res. Letts. 204-217 (August 15, 2000).	

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		Edwards, "On the Resource evaluation of Marine Gas Hydrate Deposits Using Sea-Floor Transient Electric Dipole-Dipole Methods", 62 Geophysics 63-74 (January 1997).			**
		Chave et al., "Some Comments on Seabed Propagation of ULF/ELF Electromagnetic Fields", 25 Radio Science 825-36 (September 1990).			
		MacGregor et al., "Use of Marine Controlled-Source Electromagnetic Sounding for Sub-Basalt Exploration", 48 Geophys. Prosp. 1091-1106 (April 2000).			
		MacGregor et al., "Marine Controlled Source Electromagnetic Sounding: Development of a Regularized Inversion for 2-Dimensional Resistivity Structures", 1 LITHOS Science Report 103-109 (April 1999).			
		MacGregor et al., "The RAMESSES Experiment - III. Controlled-Source Electromagnetic Sounding of the Reykjanes Ridge", 135 Geophys. J. Int. 773-89 (July 1998).			
		Sinah et al., "Magmatic Processes at Slow Spreading Ridges: Implications of the RAMESSES Experiment at 57 deg. 45'N on the Mid-Atlantic Ridge," 135 Geophys. J. Int. 731-45 (July 1998).			
		Sinah et al., "Evidence for Accumulated Melt Beneath the Slow-Spreading Mid-Atlantic Ridge," 355 Phil. Trans. R. Soc. Lond. A 233-53 (January 1997).			
		Search Report - PCT/GB99/02823 ; Dec. 1999.			
		Greaves et al.; New Dimensions in Geophysics for Reservoir Monitoring: SPE Formation Evaluation., Paper SPE 20170; pages 141-150; 1991			
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		EM Field of an Electric Dipole On The Surface of a Medium Containing A Thin Resistant Layer, Author unknown, date unknown. /BL/	
		Great Britain Search Report 0119245.9; May 2002.	
		"Applications of 3-Dimensional Electromagnetic Induction by Sources in the Ocean", A proposal submitted to MAST III under Area C: Marine Technology, Part 1. Oct. 1996.	
		"Applications of 3-Dimensional Electromagnetic Induction by Sources in the Ocean", A proposal submitted to MAST III under Area C: Marine Technology, Part 2.	*
		Barton et al., "LITHOS", Cambridge Advanced Lithological Imaging Project Phase 1: 1998-2001 Sub-basalt Imaging, August 21, 1997.	
		Chave et al., "Controlled Electromagnetic Sources for Measuring Electrical Conductivity Beneath the Oceans 1", Forward Problem and Model Study, J. Geophysical Research, Vol. 87, No. B7, pp. 5327-5338, July 10, 1982.	
		Constable et al., "Marine Controlled-Source Electromagnetic Sounding 2, The PEGASUS Experiment", Journal of Geophysical Research. 101. B3 (1996): pp. 5519-5530.	
		Edwards, "On The Resource Evaluation of Marine Gas Hydrate Deposits Using Sea-Floor Transient Electric Dipole-Dipole Methods"; Resource Evaluation of Marine Gas Hydrate Deposits; January 1, 1997.	
		Edwards et al., "The Assessment of Marine Gas Hydrates through Electrical Remote Sounding: Hydrate without a BSR", Geophysical Research Letters, Vol. 27, No. 16, pp. 2397-2400, Aug. 15, 2000.	

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Sheet 11 of 14

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		Ellingsrud et al., "How Electromagnetic Sounding Technique Could be Coming to Hydrocarbon E & P", 20 First Break Article, March 1, 2002.	*
		Evans, "Constraints on the Large-Scale Porosity and Permeability Structure of Young Oceanic Crust from Velocity and Resistivity Data, Geophysical Journal International, Vol. 119, pp. 869-879, 1994.	
		Evans et al., "On the Electrical Nature of the Axial Melt Zone at 13 degrees North on the East Pacific Rise", Journal of Geophysical Research, Vol. 99, No. B1, pp. 577-588, Jan. 1994.	
		Evans et al., "Upper Crustal Resistivity Structure of the East-Pacific Rise Near 13 degrees North, Geophysical Research Letters, Vol. 18, No. 10, pp. 1917-1920, Oct. 1991.	
		Explorations, Scripps Institute of Oceanography, Vol. 4, No. 2, 1997.	
		Flosadottir et al., "Marine Controlled-Source Electromagnetic Sounding 1. Modeling and Experimental Design", Journal of Geophysical Research, Vol. 101, No. B3, pp. 5507 to 5517, Mar. 10, 1996.	

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		MacGregor, "Electromagnetic Investigation of the Reykjanes Ridge Near 58° North", PhD Thesis, University of Cambridge. Jan. 1997.			
		MacGregor, "Marine Controlled Source Electromagnetic Sounding. Development of a Regularized Inversion for 2-Dimensional Resistivity Structures", LITHOS Science Report, Vol. 1, pp. 95-101, Apr. 1999.			
		MacGregor et al., "Electrical Resistivity Structure of the Valu Fa Ridge, Lau Basin, from Marine Controlled-Source Electromagnetic Sounding", Geophysical Journal International, 146.1, pp 217-236, July 2001.			
		MacGregor et al., "Electromagnetic Evidence for a Crustal Melt Accumulation Beneath the Slow Spreading Reykjanes Ridge", Abstract for 13.sup.th Workshop on EM Induction in the Earth. Date unknown.			
		MacGregor et al., "Marine Controlled Source Electromagnetism: Effect of Source-Receiver Geometry on the Response of 1-D models", 1996.			
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		Sinha, "Controlled Source EM Sounding: Survey Design Considerations for Hydrocarbon Applications", LITHOS Science Report, Vol. 1, pp. 95 to 101, Apr. 1999.			
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		Spies, "Recent Developments in the use of Surface Electrical Methods for Oil and Gas Exploration in the Soviet Union", Geophysics, Vol. 48(8), pp. 1102-1112, 1983.	
		Strack et al., "Integrating Long-Offset Transient Electromagnetics (LOTEM) with Seismics in an Exploration Environment", Geophysical Prospecting, Vol. 44, pp. 997-1017, 1996.	
		Unsworth, "Electromagnetic Exploration of the Oceanic Crust with Controlled-Sources", Chptr 5, Insight into Induction, PhD Thesis, University of Cambridge, 1991.	
		Unsworth et al., "Electromagnetic Induction by a Finite Electric Dipole Source Over a 2-D Earth", Geophysics, Vol. 58, pp. 198-214, 1993.	
		Yuan et al., "Electromagnetic Assessment of Offshore Methane Hydrate Deposits on the Cascadia Margin, GP22A-08", American Geophysical Union Fall Meeting, San Francisco, 1998.	
		Yuan et al., "The Assessment of Marine Gas Hydrates Through Electrical Remote Sounding; Hydrate Without A BSR?", Geophys. Res. Letts., Vol. 27, No. 16, pp 2397-2400, August 15, 2000.	
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		KAUFMAN et al., "Marine Electromagnetic Prospecting System," 1981 Annual Meeting Abstracts, 1 page.			
		GREEG et al., "Remote mapping of hydrocarbon extent using marine Active Source EM Sounding," EAGE 65 th Conference & Exhibition - Stavanger, Norway, 4 pages, June 2-5, 2003.			
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